Change Order

No. ____3

Date of Issuance: January 2	2, 2014		Effective Date:	January 2, 2014	
Project: Turquoise Trail Well 2 and Well 3	Owner: Hopi Trib	oe .		Owner's Contract No.:EA 11-12	
Contract: EA 11-12, Turquois	se Trail	Wells #2	and #3	Date of Contract:	
Contractor: Yellow Jacket D:	rilling S	Services		Engineer's Project No.:PH 10-E37 and PH 04-S63	
he Contract Documents are modified as follo	ws upon execution	of this Change O	rder:		
Description: Well 3: authoriz	ation to	re-drill	Well 3	at the contractor's	CC
ncreases contract tir					
rom all claims relati		ntractor	's effor	ts at the original W	Vel:
Change Order #3 - Rev	vised Qua	ntities	and Tota	ls	
Change Order 3 Condit					
CHANGE IN CONTRACT PRICE:	22.02.00.022.00.024.000.000.000.000.000.		CHANGE IN CON	TRACT TIMES:	
Original Contract Price:		iginal Contract Tir	6	cing days X Calendar days	
<pre>\$ 2,249,933.70</pre>		ady for final payme		210 days (1/6/14)	
ncrease] [Decrease] from previously approved the province of t	d Change [In	crease] [Decrease]		y approved Change Orders :	
26 200 71	Sui	bstantial completion	on (days):	none	
s <u>-36,322.71</u>	Rea	ady for final paymer	nt (days):	none	
ontract Price prior to this Change Order:		ntract Times prior	•	rder: 210_days_(1/6/14)	
\$	Rea	dy for final paymer	it (days or date):		
ncrease] [Decrease] of this Change Order:	-	crease] [Decrease] ostantial completion	-	^{rder:} +104 days	
\$0.00		idy for final paymer			
ontract Price incorporating this Change Order:		ntract Times with	* *		7 4 \
<u>\$</u> 2,213,610.99		ostantial completion dy for final paymen		314 days (4/20/	14)
	contribution of the state of th	***************************************	•••••••••••••••••••••••••••••••		
ECOMMENDED:	ACCEPTED:		ACC	CEPTED:	
Fingineer (Authorized Bignature)	y:Owner (A	uthorized Signature)	Ву:	Contractor (Authorized Signature)	
ate: 1-2-14 E	Pate:		Date	:	
oproved by Funding Agency (if applicable):		w	Date	:	

CHANGE ORDER #3 - REVISED QUANTITIES AND TOTALS

HOPI TRIBE TURQUOISE TRAIL WELL 2 AND WELL 3 PH 04-S63, PH 08-T38, PH 10-E37, and PH 11-E55 / EA 11-12 January 2014

SCHEDULE A (WELL 2)

Yellow Jacket Drilling Services

SCHED	JLE A (WELL 2)						Yellow Jacket Dr	illing services			
Item	Description	Estimated	After Change	After Change	After Change	Units	Unit	Original Bid	Change Order	Change Order	Change Order
		Quantity	Order #1	Order #2	Order #3		Price	Price	#1 Total	#2 Total	#3 Total
1	Mobilization/demobilization/site prep	1	1	1	1	Lump sum	\$80,700	\$80,700	\$80,700	\$80,700	\$80,700
2	Drill surface casing borehole 34-inch diameter	40	40	40	40	Linear feet	\$410	\$16,400	\$16,400	\$16,400	\$16,400
3	Install and Grout 20-inch surface casing	40	40	40	40	Linear feet	\$169	\$6,760	\$6,760	\$6,760	\$6,760
4	Drill 9-7/8-inch diameter pilot hole and collect samples	2,470	2,470	2,470	2,470	Linear feet	\$54	\$133,380	\$133,380	\$133,380	\$133,380
5	Conduct geophysical/lithologic logging	1	1	1	1	Lump sum	\$26,160	\$26,160	\$26,160	\$26,160	\$26,160
	Collect water samples and perform water quality testing										
6	6A. D Aquifer Zone	1	1	1	1	EACH	\$19,150	\$19,150	\$19,150	\$19,150	\$19,150
	6B. N Aquifer Zone	3	3	3	3	EACH	\$19,150	\$57,450	* \$57,450	\$57,450	\$57,450
6-1	Additional Airlifting Hours for N Aquifer Zones		30	30	30	hours	\$550		\$16,500	\$16,500	\$16,500
7	Lost Circulation	8	0	0	0	Hours	\$550	\$4,400	\$0	\$0	\$0
8	Ream pilot hole to 18-inch diameter from surface casing to total depth	2,470	2,180	2,180	2,180	Linear feet	\$74	\$182,780	\$161,320	\$161,320	\$161,320
9	Install 12-inch blank well casing	2,005	1,697	1,697	1,697	Linear feet	\$144	\$288,720	\$244,368	\$244,368	\$244,368
10	Install 12-inch well screen	500	485	485	485	Linear feet	\$204	\$102,000	\$98,940	\$98,940	\$98,940
11	Filter Pack	540	495	495	495	Linear feet	\$47	\$25,380	\$23,265	\$23,265	\$23,265
12	Filter Pack Seal Installation	25	25	25	25	Linear feet	\$44	\$1,100	\$1,100	\$1,100	\$1,100
13	Sanitary seal – grout	1,945	1,660	1,660	1,660	Linear feet	\$17	\$33,065	\$28,220	\$28,220	\$28,220
14	Well development by airlift and swabbing	36	36	36	36	Hours	\$550	\$19,800	\$19,800	\$19,800	\$19,800
15	Well Disinfection	1	1	1	1	Lump Sum	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
16	Well video, plumbness and alignment test	1	1	1	1	Lump sum	\$9,500	\$9,500	\$9,500	\$9,500	\$9,500
17	Furnish/Install/Remove test pump	1	1	1	1	Each	\$76,900	\$76,900	\$76,900	\$76,900	\$76,900
18	Well development by pumping	24	24	116	116	Hours	\$475	\$11,400	\$11,400	\$55,100	\$55,100
19	Well pump testing	72	72	24	24	Hour	\$475	\$34,200	\$34,200	\$11,400	\$11,400
20	Water quality analyses	1	1	1	1	Lump sum	\$3,800	\$3,800	\$3,800	\$3,800	\$3,800
21	Well abandonment	2,510	2,510	0	0	Linear feet	\$1	\$2,510	\$2,510	\$0	\$0
22	Record Drawings	1	1	1	1	Lump sum	\$500	\$500	\$500	\$500	\$500

^{*} Corrected value (Does not match contractor's Bid Schedule)

CONSTRUCTION SUBTOTAL SCHEDULE A \$1,138,555.00 \$1,074,823.00 \$1,093,213.00 \$1,093,213.00

SCHEDULE B (WELL 3)

Item	Description	Estimated	After Change	After Change	After Change	Units	Unit	Total	Change Order	Change Order	Change Order
Item	Description	Quantity	Order #1	Order #2	Order #3	Onits	Price	Price	#1 Total	#2 Total	#3 Total
1	Mobilization/demobilization/site prep	1	1	1	1	Lump sum	\$75,700	\$75,700	\$75,700	\$75,700	\$75,700
2	Drill surface casing borehole 34-inch diameter	40	40	40	40	Linear feet	\$410	\$16,400	\$16,400	\$16,400	\$16,400
3	Install and Grout 20-inch surface casing	40	40	40	40	Linear feet	\$169	\$6,760	\$6,760	\$6,760	\$6,760
4	Drill 9-7/8-inch diameter pilot hole and collect samples	2,470	2,470	2,470	2,470	Linear feet	\$54	\$133,380	\$133,380	\$133,380	\$133,380
5	Conduct geophysical/lithologic logging	1	1	1	1	Lump sum	\$26,160	\$26,160	\$26,160	\$26,160	\$26,160
	Collect water samples and perform water quality testing										
6	6A. D Aquifer Zone	1	1	0	0	EACH	\$17,150	\$17,150	\$17,150	\$0	\$0
	6B. N Aquifer Zone	3	3	3	3	EACH	\$17,150	\$51,450	\$51,450	\$51,450	\$51,450
6-1	Uranium and Gross Beta water quality analysis			2	2	EACH	\$230			\$460	\$460
7	Lost Circulation	8	8	0	0	Hours	\$550	\$4,400	\$4,400	\$0	\$0
8	Ream pilot hole to 18-inch diameter from surface casing to total depth	2,470	2,470	2,470	2,470	Linear feet	\$71	\$175,370	\$175,370	\$175,370	\$175,370
9	Install 12-inch blank well casing	2,005	2,005	2,005	2,005	Linear feet	\$142	\$284,710	\$284,710	\$284,710	\$284,710
10	Install 12-inch well screen	500	500	500	500	Linear feet	\$204	\$102,000	\$102,000	\$102,000	\$102,000
10-1	Install 12-inch blank s.s. well casing			80	80	Linear feet	\$338			\$27,000	\$27,000
10-2	12-inch blank s.s. well casing delivery			1	1	Lump sum	\$5,800			\$5,800	\$5,800
11	Filter Pack	540	540	540	540	Linear feet	\$47	\$25,380	\$25,380	\$25,380	\$25,380
12	Filter Pack Seal Installation	25	25	25	25	Linear feet	\$44	\$1,100	\$1,100	\$1,100	\$1,100
13	Sanitary seal – grout	1,945	1,945	1,945	1,945	Linear feet	\$17	\$33,065	\$33,065	\$33,065	\$33,065
14	Well development by airlift and swabbing	36	36	36	36	Hours	\$550	\$19,800	\$19,800	\$19,800	\$19,800
15	Well Disinfection	1	1	1	1	Lump Sum	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
16	Well video, plumbness and alignment test	1	1	1	1	Lump sum	\$9,500	\$9,500	\$9,500	\$9,500	\$9,500
17	Furnish/Install/Remove test pump	1	1	1	1	Each	\$63,900	\$63,900	\$63,900	\$63,900	\$63,900
18	Well development by pumping	24	24	24	24	Hours	\$475	\$11,400	\$11,400	\$11,400	\$11,400
19	Well pump testing	70	70	70	70	Hour	\$475	\$33,250 *	\$33,250	\$33,250	\$33,250
20	Water quality analyses	1	1	1	1	Lump sum	\$3,800	\$3,800	\$3,800	\$3,800	\$3,800
21	Well abandonment	2,510	2,510	0	0	Linear feet	\$1	\$2,510	\$2,510	\$0	\$0
22	Record Drawings	1	1	1	1	Lump sum	\$500	\$500	\$500	\$500	\$500
* Correcte	ed value (Does not match contractor's Bid Schedule)			·	CONST	RUCTION SUE	STOTAL SCHEDULE B	\$1,100,185.00	\$1,100,185.00	\$1,109,385.00	\$1,109,385.00
							A PLUS SCHEDULE B	\$2,238,740.00 *	\$2,175,008.00		\$2,202,598.00
							TERO FEE (0.5%)	\$11,193.70 *	\$10,875.04	\$11,012.99	\$11,012.99
								\$2,249,933.70 *	\$2,185,883.04		\$2,213,610.99
								,,	,	, _,,	,,

CHANGE IN CONTRACT AMOUNT

\$0.00

(\$64,050.66)

\$27,727.95

Change Order Conditions - Change Order #3

EA 11-12 Turquoise Trail Well Drilling

January 2, 2014

Yellow Jacket Drilling (YJD) has offered to abandon and re-drill Turquoise Trail Well 3, at their cost. Incorporated into Change Order 3 are the following items relative to the re-drilling:

- YJD is authorized to move over approximately 50 ft, on the existing Well 3 site, and redrill at no additional mobilization cost to the owner
- New 24" surface casing installed at YJD cost with a 36" auger bit
- 22" borehole will be allowed drilled at YJD cost
- Geophysical/lithologic logging to be omitted, unless the lithology indicates that the formation depths and intervals are significantly different from the original Well 3 borehole, in which case logging will be needed to confirm the formation depths and intervals, and will be provided at YJD cost
- Zonal sampling to be omitted
- More aggressive air lifting and well development equipment and methods will be required if a 22" borehole is drilled – well development rig, equipment, and methods to be provided at YJD cost
- Additional air lifting hours additional hours are expected with the 22" borehole, actual
 air lifting hours will be compared to those incurred at Well 2 and the number of
 additional hours paid will be negotiable
- Lost circulation negotiable
- Reaming at YJD cost
- Casing original casing from Well 3 to be reused, if not damaged, larger centralizers will be needed, provided at YJD's cost
- Screen original screen from Well 3 to be reused, if not damaged, larger centralizers will be needed, provided at YJD's cost
- Filter pack paid on a per foot basis per the contract
- Filter pack seal paid on a per foot basis per the contract
- Sanitary seal paid on a per foot basis per the contract
- Well development by pumping additional hours are expected with the 22" borehole, actual development hours will be compared to those incurred at Well 2 and the number of additional hours paid will be negotiable
- Well abandonment the original Well 3 is to be abandoned at YJD cost, per the specifications
- Contract time to be extended 104 days
- Liquidated damages \$300/day per the original agreement
- Stainless Steel blank casing 40 LF to be installed at Well 3 as a tail piece, paid by owner
- Schedule YJD authorized to commence re-drilling as soon as possible

Also acknowledged by this change order is that Yellow Jacket Drilling releases and indemnifies the Owner, the Hopi Tribe, from any and all claims and/or requests for payment arising from the drilling and attempt at construction of the original Well 3 borehole – including, but not limited to, contractor's attempts at fishing for tremie pipe, installation and removal of well screen and casing, drilling and reaming of the borehole, installation of surface casing, abandonment of the borehole, etc. For the original Well 3 borehole, the Owner will make payment for the zonal sampling of the N aquifer, the geophysical logging, and for the 80 LF of blank stainless steel casing. All other costs in relation to the original Well 3 borehole are to be borne solely by the contractor.

Also acknowledged by this change order is that the re-drilled Well 3 is to be completed by YJD per the contract documents, specifications, and any executed change orders.

RECOMMENDED:	ACCEPTED:	ACCEPTED:
AEHyl Engineer	Owner	Contractor
1-2-14		Contractor
Date	Date	Date